CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP.

12th May 2014

Dear Sir,

Sub: Testing of Wet Mix Macadam.

As requested, tests on physical properties were carried out for the Wet Mix Macadam supplied by you, for the work of **'Providing CC roads and asphalting to roads at gangamma gudi area in ward no. 10 (Doddabommasandra) Vidyaranyapura sub division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Deputy Quality Manager

AE

CIVIL TECH LABS

TEST ON AGGREGATES ('AIV' & Combined Flakiness & Elongation Index)

Wet Mix Macadam

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Providing CC roads and asphalting to roads at gangamma gudi area in ward no. 10 (Doddabommasandra) Vidyaranyapura sub division.
Agency of the Name	M/s. K. R. I. D. L.
Date of Testing	12/05/2014
Reference	**MORTH Table 400-10**

Sample No	Aggregate Impact Value 'AIV' in %	Average AIV in %	Remarks
1	23.1	23.7	Satisfactory (As per MORTH for WMM, Maximum allowed AIV is 30 %)
2	24.2		

Test	Result in %	Combined Flakiness & Elongation Index 'C-F&E' in %	Remarks
Flakiness Index	12.5	24.4	Satisfactory (As per MORTH for WMM, Maximum allowed 'C-F&E' is 30 %)
Elongation Index	11.9		

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Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

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T-2654

To,

Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP.

22nd May 2014

Dear Sir,

Sub: Testing of Semi Dense Bituminous Concrete.

As requested, tests on physical properties were carried out for the Semi Dense Bituminous Concrete supplied by you, for the work of **'Providing CC roads and asphalting to roads at gangamma gudi area in ward no. 10 (Doddabommasandra) Vidyaranyapura sub division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Deputy Quality Manager

CIVIL TECH LABS

TEST ON AGGREGATES ('AIV' & Combined Flakiness & Elongation Index)

Semi Dense Bituminous Concrete

Name of the Client	AEE, Vidyaranyapura Sub Division, BBMP
Project	Providing CC roads and asphalting to roads at gangamma gudi area in ward no. 10 (Doddabommasandra) Vidyaranyapura sub division.
Agency Name	M/s. K. R. I. D. L.
Date of Testing	22/05/2014
Reference	**MORTH Table 500-14**

Sl. No	Aggregate Impact Value 'AIV' in %	Average AIV in %	Remarks
1	22.3	22.1	Satisfactory (As per MORTH for SDBC, Maximum allowed AIV is 27 %)
2	21.8		

Test	Result in %	Combined Flekiness & Elongation Index 'C-F&E' in %	Remarks
Flekiness Index	11.5	24.0	Satisfactory (As per MORTH for SDBC, Maximum allowed 'C-F&E' is 30 %)
Elongation Index	12.5		

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Lab Incharge
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CIVILTECH LABS

STRIPPING TEST OF ROAD AGGREGATES

Semi Dense Bituminous Concrete

Name of the Client	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Providing CC roads and asphalting to roads at gangamma gudi area in ward no. 10 (Doddabommasandra) Vidyaranyapura sub division.
Name of the Agency	M/s. K. R. I. D. L.
Date of Testing	22/05/2014

Method of Test	Observation No.	Uncovered Area/Stripping in %	Average Stripping Value in %	As Per Morth Table 500-14	Remarks
IS 6241-1971 (Reafirmed 2003)	1	3.9	3.9	**5 % Maximum**	Satisfactory
	2	4.2			
	3	3.5			

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WATER ABSORPTION TEST OF ROAD AGGREGATES

Semi Dense Bituminous Concrete (SDBC)

Name of the Client	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Providing CC roads and asphalting to roads at gangamma gudi area in ward no. 10 (Doddabommasandra) Vidyaranyapura sub division.
Agency Name	M/s. K. R. I. D. L.
Date of Testing	22/05/2014

Method of Test	Sample No.	Water Absorption in %	Average Water Absorption in %	As per MORTH Table 500-14	Remarks
IS : 2386 (Part 3)	1	0.99	0.98	**2 % Maximum**	Satisfactory
	2	0.97			
	3	0.98			

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T-2654

To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP Bangalore.

12th May 2014

Dear Sir,

Sub: Testing Wet Mix Macadam.

As requested, tests on physical properties were carried out for the Wet Mix Macadam samples supplied by you, for the work of **'Providing CC roads and asphalting to roads at gangamma gudi area in ward no. 10 (Doddabommasandra) Vidyaranyapura sub division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Deputy Quality Manager

AE

CIVIL TECH LABS

TEST ON WMM MIX

Name of the Client	AEE, Vidyaranyapura Sub Division, BBMP
Project	Providing CC roads and asphalting to roads at gangamma gudi area in ward no. 10 (Doddabommasandra) Vidyaranyapura sub division
Agency	M/s. K. R. I. D. L.
Date of Testing	12/05/2014
Reference	**MORTH Table 400-11**

IS Sieve Designation (mm)	% By Weight Passing IS Sieve	Actual % By Weight Passing IS Sieve	Remarks
53	100	100	**Satisfies Requirements**
45	95-100	98.2	
22.4	60-80	73.6	
11.2	40-60	54.2	
4.75	25-40	34.2	
2.36	15-30	26.7	
0.6	8-22	17.2	
0.075	0-8	7.2	

Note:

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T-2654

To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP Bangalore.

10th May 2014

Dear Sir,

Sub: Providing CC roads and asphalting to roads at gangamma gudi area in ward no. 10 (Doddabommasandra) Vidyaranyapura sub division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Deputy Quality Manager

Radha
AE

CIVIL TECH LABS

TEST REPORT ON CONCRETE CUBES

Name of the Client	AEE, Vidyaranyapura Sub Division, BBMP
Project	Providing CC roads and asphalting to roads at gangamma gudi area in ward no. 10 (Doddabommasandra) Vidyaranyapura sub division
Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 Sq.mm
Technical Reference	IS: 516-1959(Reaffirmed 2004)

Sl.No	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/Sq.mm)	Avg Compressive Strength (N/Sq.mm)
1	CC-Work (Pavement)	12/04/2014	10/05/2014	28	8.16	460	20.44	20.74
2					8.17	465	20.67	
3					8.18	475	21.11	

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T-2654

To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP Bangalore.

22nd May 2014

Dear Sir,

Sub: Testing Semi Dense Bituminous Concrete.

As requested, tests on physical properties were carried out for the Semi Dense Bituminous Concrete samples supplied by you, for the work of **'Providing CC roads and asphalting to roads at gangamma gudi area in ward no. 10 (Doddabommasandra) Vidyaranyapura sub division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

(KHUSHBOO L.)
Deputy Quality Manager

CIVIL TECH LABS BANGALORE

Sudha
AE

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TEST ON SDBC MIX GRADE - 2

Name of the Client	AEE, Vidyaranyapura Sub Division, BBMP
Project	Providing CC roads and asphalting to roads at gangamma gudi area in ward no. 10 (Doddabommasandra) Vidyaranyapura sub division
Agency	M/s. K. R. I. D. L.
Date of Testing	22/05/2014
Reference	**MORTH Table 500-15. SDBC Grade-2**

	Sample-2		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve**	**Actual % By Weight Passing IS Sieve**	**Remarks**
13.2	100	100	**Satisfies Requirements**
9.5	90-100	97.2	
4.75	35-51	43.6	
2.36	24-39	35.6	
1.18	15-30	23.4	
0.3	9-19	18.2	
0.075	3-8	6.8	

Note:

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TEST ON SDBC MIX GRADE - 2

Name of the Client	AEE, Vidyaranyapura Sub Division, BBMP
Project	Providing CC roads and asphalting to roads at gangamma gudi area in ward no. 10 (Doddabommasandra) Vidyaranyapura sub division
Agency	M/s. K. R. I. D. L.
Date of Testing	22/05/2014
Reference	**MORTH Table 500-15. SDBC Grade-2**

	Sample-1		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve**	**Actual % By Weight Passing IS Sieve**	**Remarks**
13.2	100	100	**Satisfies Requirements**
9.5	90-100	98.5	
4.75	35-51	45.7	
2.36	24-39	34.5	
1.18	15-30	26.7	
0.3	9-19	18.4	
0.075	3-8	6.7	

Note:

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Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

Sadha
AE

CIVIL TECH LABS

Bitumen Content Determination on SDBC Mix-Grade 2

Name of the Client	AEE, Vidyaranyapura Sub Division, BBMP
Name of the Work	Providing CC roads and asphalting to roads at gangamma gudi area in ward no. 10 (Doddabommasandra) Vidyaranyapura sub division
Agency Name	M/s. K. R. I. D. L.
Date of Testing	22/05/2014

Specification : As Per MORTH (4th Revision) Table 500-15
Minimum Bitumen Content SDBC/Grade-2 is 5 %

Sl.no	Description	Sample-1	Sample-2
1	Weight of mixture before test, g	1000	1000
2	Weight of mixture after test, g	946	944
3	Weight of bitumen extracted, g	54	56
4	Bitumen content in %	5.40	5.60
5	Average Bitumen content in %	5.50	
Remarks	**Satisfactory**		

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